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GL

(SNEAD)

STEEL BOOK STACKS

AND LIBRARY EQUIPMENT

Louisiana
State
University
Baton Rouge

THE GLOBE-WERNICKE CO.
Cincinnati 12, Ohio

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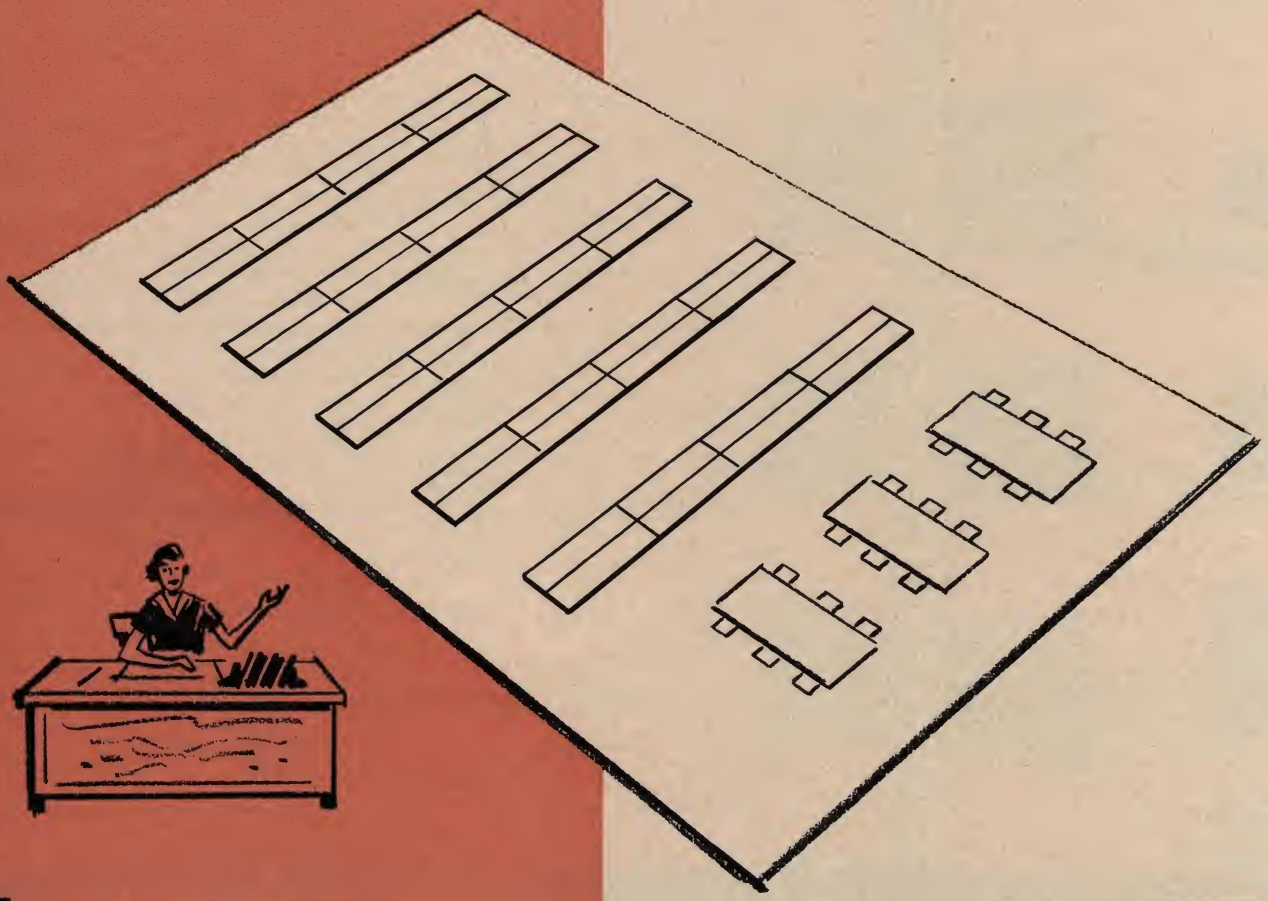

Library Planning

The well-administered, smoothly functioning public or private library is a direct result of thorough, careful, scientific planning combined with an appreciative understanding of the individual conditions and problems of each installation.

Whether the problem involves planning, building and equipping a completely new library, or the expansion, remodeling or modernization of the present library, Globe-Wernicke's library engineers are available to aid in solving library planning and layout problems. There is no obligation in calling upon the G/W library engineering staff in this advisory capacity.

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design factors

No definite rules can be laid down regarding the width of shelves required as much depends on the method of classification, space available and use to which the library is put. Where economy and compactness of storage are important, 8-inch shelving is recommended for book stacks in general. Most books are six inches or less in depth and it is well to bear in mind that waste space back of books collects dirt and is objectionable while the same space added to the width of the aisles becomes valuable.

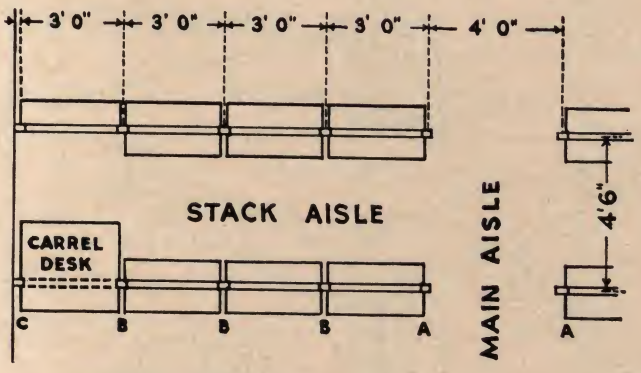
The number of volumes that can be stored per lineal foot of shelving depends on the character of the books. The table at right has been prepared by averaging the data collected from various general and special libraries, for convenience in computing the amount of stack necessary, the capacity being based on stacks 7½ ft. high with seven rows of shelves in the height.

The figures are for solidly packed books without any allowance for working space or expansion.

shelf requirements

	Vols. per ft. of shelf	Vols. per linl. ft. of single-faced range	Vols. per 3 ft. of single-faced range	Recommended width of shelves
Circulating	8	56	168	8 in.
Fiction	8	56	168	8 in.
Economics	8	56	168	8 in.
General Literature	7	49	147	8 in.
Reference	7	49	147	8-10 in.
History	7	49	147	8 in.
Technical and Scientific	6	42	126	8-10 in.
Medical	5	35	105	8-10 in.
Law	4	28	84	8 in.
Public Documents	5	35	105	8 in.
Bound Periodicals	5	35	105	10-12 in.
U. S. Patent Specifications 2 (144 vols.) per year		14	42	8 in.

The plan below shows an example of typical stack construction.



UNIT STACK WEIGHTS

BOOKS — 25 lbs. per cubic foot of range.

STACKCONSTRUCTION — 8 lbs. per cubic foot of ranges.

STEEL PANEL FLOOR — 12 lbs. per sq. ft. (including tile).

REINFORCED CONCRETE FLOOR — 45 lbs. per sq. ft. (including tile.)

LIVE LOAD — To be determined by local codes.

load data

The following table illustrates the approximate variation of stack loads for from one to twelve tiers, including Stacks, Books, Concrete Deck and 50 lbs. Live Load.

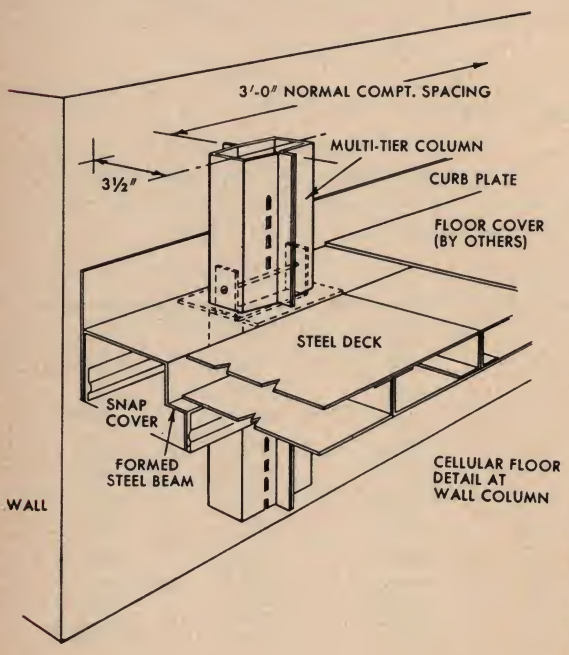
tiers	A	B	C
1	620	1240	620
2	2612	3513	1863
3	4604	5786	3106
4	6596	8059	4349
5	8588	10332	5592
6	10580	12605	6835
7	12572	14878	8078
8	14564	17151	9321
9	16556	19424	10564
10	18548	21697	11807
11	20540	23970	13050
12	22532	26243	14293

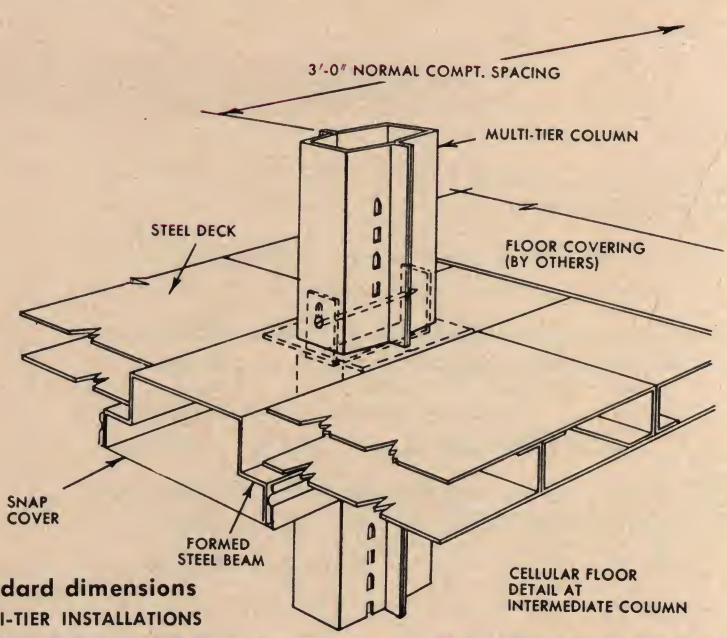
A—Typical aisle end support.
B—Typical intermediate support.
C—Typical wall end support.

multi-tier stack construction

Floor space, costing what it does, requires large volume book storage to go vertical. Book transportation is much simpler in the vertical than in the horizontal. The multi-tier stack, structurally supports not only the book load, but also supports the floor decks and the roof. This construction is only suited to space permanently allocated to book storage. The close spacing of supporting columns permits the use of thin slab concrete or cellular steel floors. There is no more practical and efficient system for permanent book storage with maximum utilization of space.

cellular steel construction





standard dimensions

MULTI-TIER INSTALLATIONS

HEIGHT — 7 ft. 6 in. to 8 ft., measuring from top surface of deck floor to top surface of next deck floor.

AISLES — Main, 3 ft. to 4 ft. Range, 2 ft. 6 in., to 3 ft.

RANGES — Lengths as required preferably not over 21 ft.

SHELVES — Lengths, as required, standard 3 ft. Depths, 8, 9, 10 and 12 in. for books. 18 in. for newspapers.

(Note — Shelf depth is measured from centerline of Range to outside edge of shelf.)

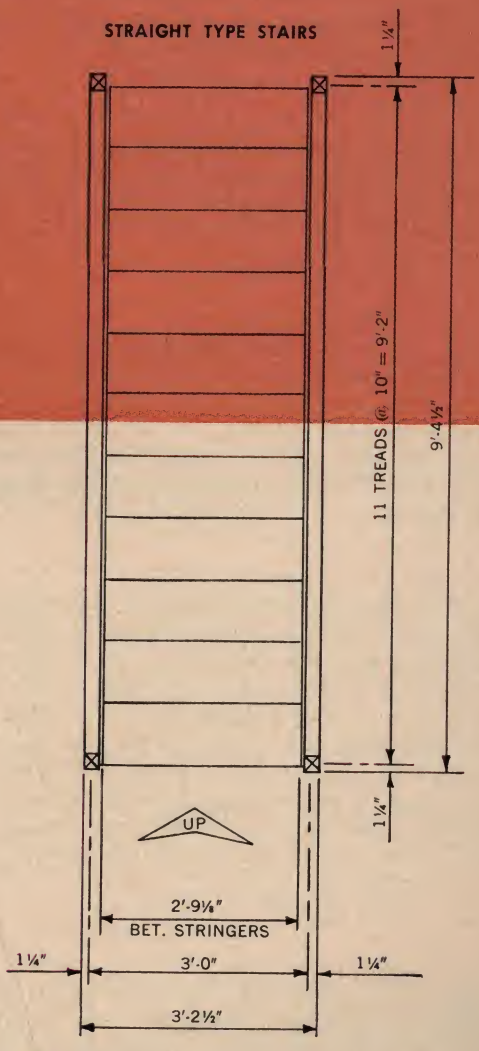
STAIRS — Straight type, well length 9 ft. 2 in. to 10-ft., width 3 ft. Return type, well length 7 ft., width 5 ft.

DECK FLOOR — May be one of two types: Reinforced concrete slab 3½ in. thick without plaster or floor covering. Cellular steel type construction with formed beams. (For weight and loading factors see page 3.)

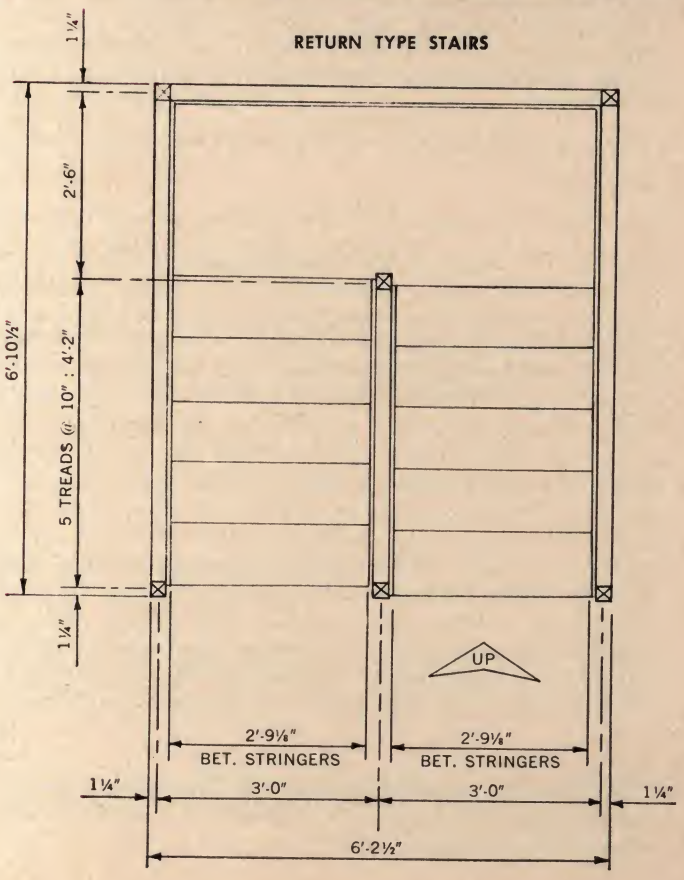
The specifications for Multi-tier for book stack construction on page 6, covers in separate paragraphs, the Reinforced Concrete deck construction as illustrated at the left, and the Cellular Steel Construction as illustrated on page 5. Globe-Wernicke can furnish either construction. In writing specifications, Architects should select and include either paragraph.

Architects are invited to consult Globe-Wernicke library engineers for design assistance and specific recommendations for Multi-tier library installations.

STRAIGHT TYPE STAIRS



RETURN TYPE STAIRS



stair specifications

NEWELS — 2½" x 2½" x 3/16" sq. tubing.
NEWEL PLATE — 3" x 3" x ¼" plate w/ ¼" thick steel plug.
STRINGERS — 3/16" x 10" steel plate or 10" — 8.4# J & L stair channel.
TREADS — #14 ga. steel w/concrete fill or slate.
RISERS — #14 ga. steel.
LANDINGS — concrete or slate.
RAILINGS — 1¼" I.D. pipe.
NEWEL CAPS — standard type, cast design.

specifications for multi-tier book stack construction

scope

Set forth are the specifications for a high-quality book-stack installation, as manufactured by The Globe-Wernicke Co. Anything not listed in the specifications but shown on the drawings, and vice versa, shall be supplied.

type of stack

All specifications are based on the bracket type of book stack construction as detailed in the BOOK STACK COLUMNS paragraph.

materials

Sheet steel parts shall be best grade (metal furniture) stock, open hearth, cold rolled, annealed, pickled and U. S. standard gauge. Structural steel members shall conform to the A.S.T.M. building specifications standard.

workmanship

The highest workmanship standard of the metal furniture trade shall prevail through all phases of fabrication, assembly and erection. Exposed surfaces, edges, nuts, heads of bolts and rivets shall be smooth. Fastenings shall be secure, alignments shall be true.

stack columns

Shall support the adjustable shelves and the decks (decks are the floors under and over the book stacks). It shall be possible to vary the position of the shelves by hooking them in slots in the stack columns; the slots shall be at 1" intervals along the entire column length; any three consecutive slots shall differ in shape to facilitate aligning and leveling of the shelves.

column design

Shall be based on these minimum considerations: Live load for columns over aisles, 50 lb./sq. ft.; stack construction, 8 lb./ cu. ft.; book load, 25 lb./cu. ft. The stack columns shall carry all dead and live loads (decks, shelves, book trucks, paper, etc.) without noticeable deflection and vibration, and shall have a safety factor provided by the formula of the American Institute of Steel Construction:

$$\text{Allowable stress/sq. in. of steel} = 17000 - 0.485\,\frac{L^2}{R^2}$$

L—Length in inches; R — Radius of gyration; $\frac{L}{R}$ not to exceed 120.

stack compartments

Shall be measured from center to center of supports, as shown on drawings (usually 36"); each compartment shall have 7 adjustable shelves. Standard shelves shall be 8" (nominal) in depth as measured from the outer edge of the shelf to the center line of the stack columns; this size shall be 85%, 10" (nominal) depth — 10% and 12" (nominal) depth — 5% of total shelf order.

adjustable shelves — solid plate design

The solid plate shelves shall have 16-gauge end brackets that shall engage the slots of the stack columns. These brackets shall have three hooks at top rear and a lug at lower rear, to engage the column slots and to prevent lateral movement. The shelf shall be not less than 18-gauge steel, triple flanged along the front and back edges and shall be able to withstand a load of 40 lb./sq. ft. with a maximum deflection of 3/16".

deck construction — reinforced concrete

The floor beneath the book stacks — the deck — shall be reinforced concrete, using rods, angle iron, T bars, beams, channels, plates and other shapes as required. A live load of 50 lb./sq. ft. of aisle area shall be used in calculating the strength of steel floor members. No structural member shall be subjected to stress of more than 18,000 lb./sq. in. The steel deck framing shall be secured to the stack columns, building walls, etc. Where this framing is not required, the reinforcing rods shall be held in place and supported by channel stirrups 3½" in depth and secured to the stack columns below, and forming a base for the stack above.

deck construction — cellular steel

Flooring shall consist of cellular steel shapes, firmly attached to the steel framing system, presenting a continuous smooth surface over the entire floor and ceiling. Resilient floor covering may be installed. Individual floor sections shall be formed of sheet steel, approximately 9" wide, with maximum unsupported area not to exceed 4½". Steel shall not be less than 16 gauge with overall thickness of each section determined by design conditions approved by the architect. Sound deadening material shall be used between all points of metal contact. Sections shall be firmly arc-welded at each end to supporting members. Outlets for lighting fixtures as shown on electrical drawing, using cells as underfloor raceways, will be provided. All exposed sections shall have factory baked enamel finish. Ceiling portion shall be light color as selected.

Electrical columns, decks, and beams shall carry proper Underwriters label.

stairs

Shall be of standard book stack construction, with stringers of 3/16" steel plate, reinforced with moulding or J & L stair stringer channels, closed type steel tread and risers with integrally formed nosing of not less than 14-gauge steel. The treads shall be filled with cement and finished to receive asphalt tile. The newels shall be not less than 2½" square steel tubing with rounded corners and not less than 3/16" thickness. The railings shall be a double line of 1¼" inside diameter iron pipe attached to the newels.

finish

Wherever possible, all book stack parts except structural steel shall be factory finished in baked-on enamel of a color selected by the architect and/or owner. The enamel shall be applied with great care after thorough cleaning of parts in phosphate, trichlorethylene or equal; coating and baking at the temperature and time specified by the paint manufacturer.

drawings

The successful bidder shall submit to the architect for approval triplicate prints of fully detailed shop and field drawings before starting any work.

standard type

Photo by Hube Henry, Hedrich-Blessing

The Standard Stack has full depth hollow metal division panels between compartments and at stack ends. A compartment of standard type stack is composed of fixed base, top, and six adjustable shelves. The end uprights, full depth, are slotted to provide ½-inch shelf adjustments. Either single- or double-faced stacks, with or without backs, are available. Standard height is 7′6″. Shelves and corresponding uprights can be furnished in 8-, 10-, and 12-inch depths. Sloping periodical shelves are available in 10- and 12-inch depths.

specifications for standard free standing book stacks

scope

Set forth here are the specifications for a high-quality bookstack installation, as manufactured by The Globe-Wernicke Co. Anything not listed in the specifications but shown on the drawings, and vice versa, shall be supplied.

type of stack

Stacks are made up of compartments consisting of adjustable shelves supported in slots of uprights.

materials

Sheet steel parts shall be best grade (metal furniture) stock, U. S. standard gauge. Structural steel members shall conform to the A.S.T.M. building specifications standard.

workmanship

Highest workmanship standard of metal furniture trade shall prevail through all phases of fabrication, assembly and erection. Exposed surfaces and edges shall be smooth; fastenings shall be secure; alignment shall be true.

stack compartments

Shall be 7′6″ high, 36″ O.C. wide and 8″-10″-12″ deep single-faced, 16″-20″-24″ deep double-faced.

uprights

Shall be 18-gauge steel, slotted at ½″ intervals, every fifth slot front to be marked to facilitate aligning of shelves.

top plates

Shall be 20-gauge steel, have channel formed sides 1-7/16″ high front and back, 1⅜″ high sides.

adjustable shelves

Shall be 18-gauge steel, triple-flanged ¾″ along front and back edges: designed for a 40 lb./sq. ft load with 3/16″ maximum deflection and with an accidental pull-out prevention lock.

bottom spreaders

Bottom shelves shall have 16-gauge spreaders, 4″ high, extending full length and width of compartments and flanged on all sides. Single-faced stacks shall have spreaders front and back.

end panels and backs

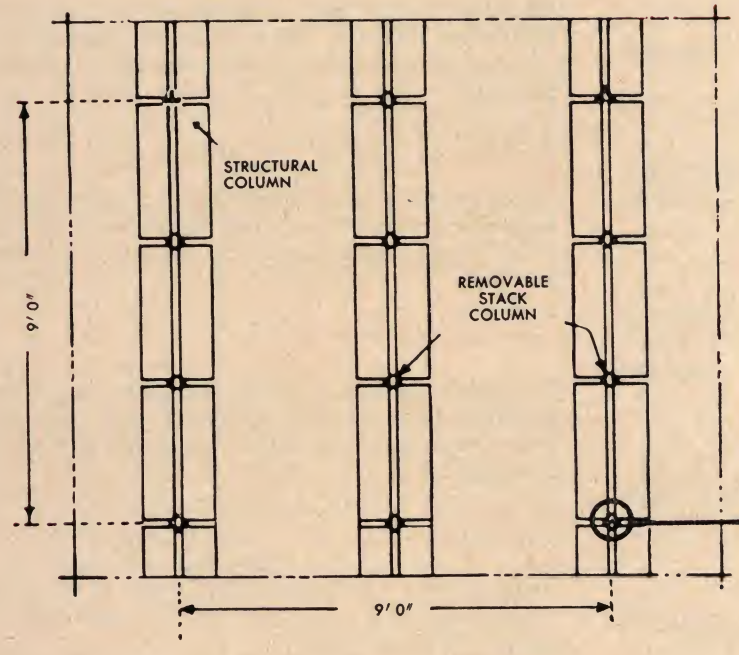
End panels shall be 18-gauge steel, have ¾″ wide channel formation front and back, reinforced with 2 20-gauge, 2¾″ wide channels. Backs shall be 20-gauge steel, flanged top and bottom.

drawings

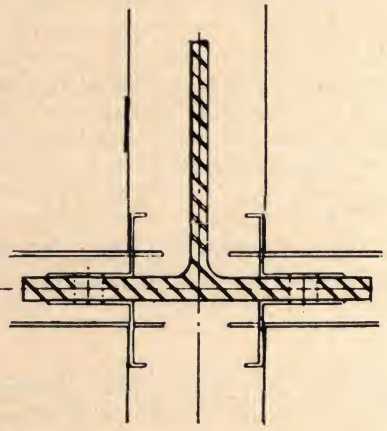
The successful bidder shall submit to the owner for approval triplicate prints of fully detailed shop and field drawings before starting any work.

convertible stack construction

In planning the modern library, more emphasis is being placed on including small areas for reading, staff work, carrels, offices, seminars, and audio-visual use. This problem can be most economically solved by the use of Snead convertible construction, wherein the columns supporting the deck floors are spaced on a nine-by-nine-foot module. This module permits the use of much thinner and less expensive floor slabs than is possible with conventional construction. Intermediate stack columns are removable so that areas nine-by-nine-feet may be converted to reading areas or for other uses.



This shows a 9' x 9' module with a detail of the star column construction. Shelf supports permit use of standard width shelves.



specifications for convertible (modular) book stacks

scope

Set forth here are the specifications for a high-quality modular book-stack installation, as manufactured by The Globe-Wernicke Co. Anything not listed in the specifications but shown on the drawings, and vice versa, shall be supplied.

type of stack

Stacks are compartments consisting of adjustable shelves supported between and by upright columns, as detailed in the STACK COLUMNS and ADJUSTABLE SHELVES paragraphs.

a. Work included in the Library Stack Contract, to be furnished and installed:

(1) .....tiers of structural columns.

(2) All concrete slabs, supported by stack columns, including necessary reinforcing, framing, shoring and form work.

(3) Non-structural book stack columns, shelves and accessories as indicated on plans and hereinafter specified.

(4) Straight type stairs (or return type) and railing from tier 1 to tier .....

(5) Metal enclosure for stairs, (Elevator, booklift, ducts, etc.)

(6) Carrel partitions and desks.

(7) Insulated partitions and doors.

(8) Wire mesh partition and doors.

(9) Newspaper shelves.

(10) Book stack accessories.

(11) Provisions to receive electrical work as specified.

materials

Sheet steel parts shall be best grade (metal furniture) stock, open hearth, cold rolled, annealed, pickled and U. S. standard gauge.

Structural steel members shall conform to the A.S.T.M. building specifications standard.

workmanship

The highest workmanship standard of the metal furniture trade shall prevail through all phases of fabrication, assembly and erection. Exposed surfaces, edges, nuts, heads of bolts and rivets shall be smooth. Fastenings shall be secure, alignments shall be true.

stack columns

The column shall be not less than 16-gauge tubular steel, its single-tier length slotted at 1″ intervals; any 3 consecutive slots differing in shape to facilitate aligning and leveling of the adjustable shelves.

structural columns

This column shall be designed to support all dead and live loads, the live load being 120 lb./sq. ft. minimum; the shape may be T, angle or other. Spacing of the columns is shown on the drawings (usually 9′0″ x 9′0″). Structural columns shall be drilled to receive shelf supports and can be supplied in multi-tier lengths.

adjustable shelves

The shelves shall be not less than 18-gauge steel, triple-flanged along the front and back edges, single-flanged along the two ends.

End brackets of shelves shall be not less than 16-gauge steel, extend 6′ above the shelf surface, and formed with 5/16″ outward flanges along the front and top edges. These brackets shall have hooks and a lug to engage the column slots.

Stack compartments shall measure 3′0″ between column centers. Each compartment shall contain 7 shelves.

Shelf depth shall be 8″ (nominal) for 85%, 10″ (nominal) for 10% and 12″ (nominal) for 5% of total shelf order. Periodical, newspaper, record storage and other types of shelf shall be as shown on the drawings.

end panels

The end panels of each stack range shall be not less than 18-gauge steel, full height and width of stack, triple-flanged on the vertical edges to a depth of not less than 1-3/16″, and trimmed at the top with 16-gauge steel bands.

closed ends

Closed stack ends shall be full depth of both single and double faced bottom shelves and of 18-gauge steel, reinforced to maximum strength to provide for rigid installation. Corners shall be formed to a ¾-inch radius and double flanged.

stairs and metal enclosures

The stairs shall be standard book-stack construction, designed for a live load of 50 lb./sq. ft., and of the extent shown on the drawings. Risers shall be not less than 14-gauge steel.

Treads shall be non-slip metal, such as Bronzalum, without perforation.

A continuous pipe and bracket handrail shall be provided for one side of the stairs; doors shall be hollow, insulated metal.

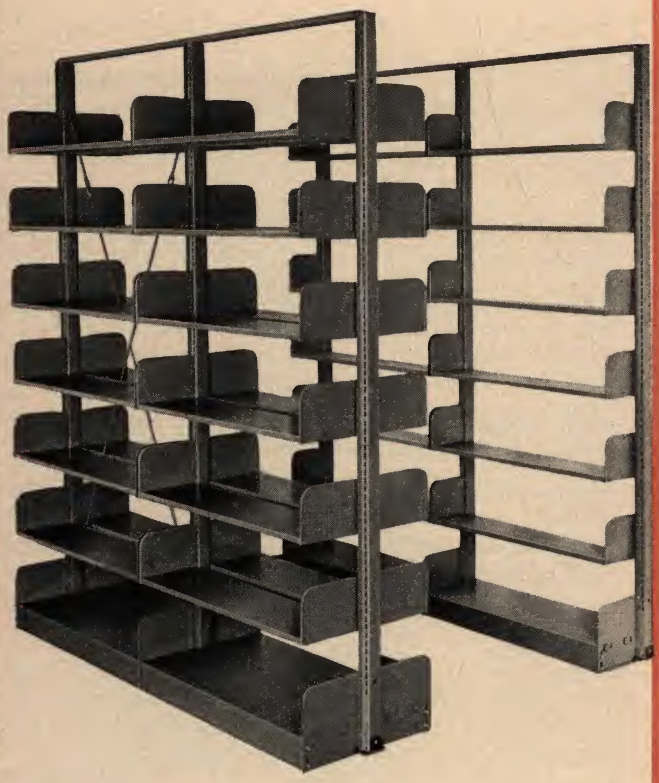
The stairwell, elevator shaft and duct shall be enclosed in not less than 18-gauge steel, reinforced to prevent buckling, noise and vibration.

accessories (optional)

The exposed end panels shall be equipped with a V-shaped range indicator, formed to hold 3″ x 5″ cards on both surfaces. Each adjustable shelf shall have 1 snap-in label holder. Each adjustable shelf shall have ..... book support(s).

drawings

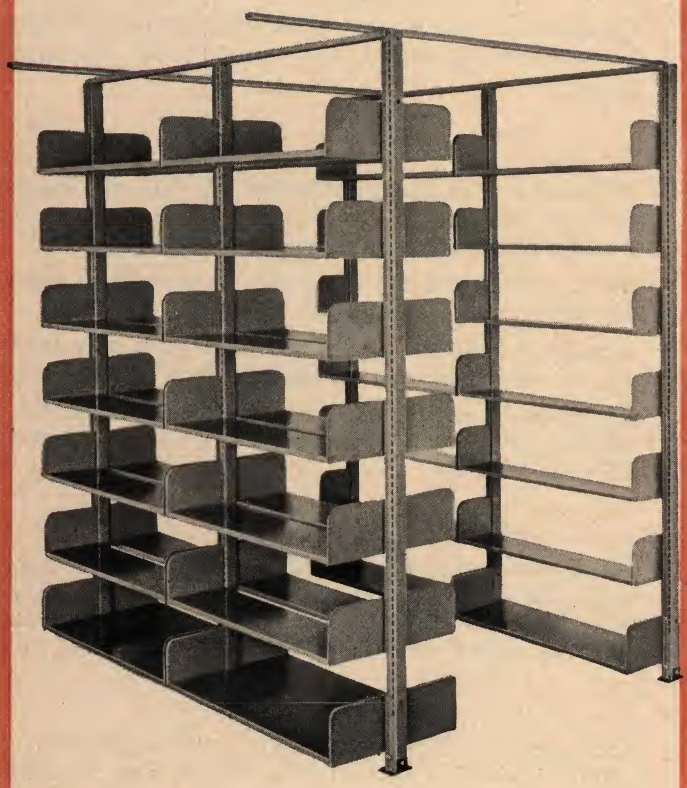
The successful bidder shall submit to the architect for approval triplicate prints of fully detailed shop and field drawings before starting any work.



free-standing stacks single- and double-faced

Free-standing stacks are so designed as to be entirely self-supporting and requiring no tie-in with adjacent walls or structures. Each compartment is equipped with one fixed bottom and six adjustable shelves and has a closed base. Compartments are regularly 7′6″ high and 3′ wide on centers. Ten-inch bottom shelves are furnished with 8- and 10-inch deep adjustable shelving; 12-inch bottom shelves, with 12-inch deep adjustable shelving. 12-inch base shelves are available for units with 8-inch and 10-inch adjustable shelves if desired.

	INITIAL UNIT STOCK NUMBERS	ADDITIONAL UNIT STOCK NUMBERS
SINGLE FACE		
With 8-inch adjustable shelves and 10-inch fixed base shelf	S 30810	S 30810-A
With 10-inch adjustable shelves and 10-inch fixed base shelf	S 31010	S 31010-A
With 10-inch adjustable shelves and 12-inch fixed base shelf	S 31012	S 31012-A
With 12-inch adjustable shelves and 12-inch fixed base shelf	S 31212	S 31212-A
With 18-inch adjustable Newspaper shelves	S 318	S 318-A
DOUBLE FACE		
With 8-inch adjustable shelves and 10-inch fixed base shelf	D 30810	D 30810-A
With 10-inch adjustable shelves and 10-inch fixed base shelf	D 31010	D 31010-A
With 10-inch adjustable shelves and 12-inch fixed base shelf	D 31012	D 31012-A
With 12-inch adjustable shelves and 12-inch fixed base shelf	D 31212	D 31212-A
With 18-inch adjustable Newspaper shelves	D 318	D 318-A



non-free standing stacks single- and double-faced

Non-free-standing stacks eliminate bottom brackets, fixed bottom shelf, and base strips. Columns must be anchored to the floor with base clips. Ranges are supported by means of overhead struts spaced at proper intervals to maintain rigidity. Plans or drawings must be included showing stack arrangement so stack struts can be furnished in proper quantity and length. Compartments are regularly 7′6″ high and 3′ wide on centers. Each compartment is equipped with seven adjustable shelves.

single-faced	INITIAL UNIT STOCK NUMBERS	ADDITIONAL UNIT STOCK NUMBERS
With 8-inch shelves	No. NS 308	No. NS 308 A
With 10-inch shelves	No. NS 310	No. NS 310 A
With 12-inch shelves	No. NS 312	No. NS 312 A
Newspaper shelves, 18″ deep	No. NS 318	No. NS 318 A
double-faced		
With 8-inch shelves	No. ND 308	No. ND 308 A
With 10-inch shelves	No. ND 310	No. ND 310 A
With 12-inch shelves	No. ND 312	No. ND 312 A
Newspaper shelves, 18″ deep	No. ND 318	No. ND 318 A

specifications for free-standing (bracket type) book stack construction

scope

Set forth here are the specifications for a high-quality book stack installation, as manufactured by The Globe-Wernicke Co. Anything not listed in the specifications but shown on the drawings, and vice versa, shall be supplied.

type of stack

All specifications are based on the bracket type of book stack construction: Shelf supporting members consist of columns, spaced 36″ O.C., holding the adjustable shelves in cantilever fashion. Double-faced stacks shall be free standing without floor anchorage or lateral bracing; and so constructed that any one compartment in a range can be removed without disturbing adjacent compartments. Single-faced stacks shall be anchored to walls with concealed angles attached at the columns. Double-faced stacks shall be braced diagonally approx. every third compartment with 5/16″ diameter rod.

guarantee

The contractor shall guarantee the installation against defective material and workmanship for one year after acceptance of work and receipt of final payment. The contractor shall replace defective work as soon as notified in writing, without expense to the owner, provided such defect in workmanship and material is the fault of the contractor.

materials

Sheet steel parts shall be best grade (metal furniture) stock, open hearth, cold rolled, annealed, pickled and U. S. standard gauge.

workmanship

The highest workmanship standard of the metal furniture trade shall prevail through all phases of fabrication, assembly and erection. Exposed surfaces, edges, nuts, heads of bolts and rivets shall be smooth. Fastenings shall be secure, alignments shall be true.

stack columns

Shall be 7′6″ high, unless otherwise specified, and consist of 2 16-gauge channels flanged outwardly, electrically spot welded together and spaced for maximum strength. Slots shall be punched on the opposing sides of the column. These slots shall be at 1″ intervals along the column length; any 3 consecutive slots shall differ in shape to facilitate aligning and leveling of the shelves.

column base clips

Column base clips shall be 11-guage steel with provision for bolting to column and floor. Clip shall have composition pad to prevent damage to floor covering.

adjustable shelves

Shall be not less than 18-gauge steel, triple flanged along front and back edges to a depth of ¾″. They shall withstand a load of 40 lb./sq. ft. with maximum deflection of 3/16″. A snap-on locking device shall link them with the brackets. Shelf depth shall be 8″ (nominal) for 85%, 10″ (nominal) for 10% and 12″ (nominal) for 5% of total shelf order. Shelf brackets of 16-gauge steel shall engage in column slots and permit easy adjustment without use of tools. Brackets shall have 3 hooks and a safety lug for engaging the column. Hooks shall be blistered to provide a snug fit; bracket edges shall be formed to prevent damage to books.

base shelves

Base shelves shall be 18-gauge steel, with ¾″ front edge, flanged and folded. Ends shall be flanged to engage bottom bracket clips. Depth of double-faced shelves shall be continuous. A formed, 18-gauge steel kick plate shall serve as closure between bottom shelf and floor, and so designed as to accommodate floor irregularities. Bottom brackets of 11-gauge steel shall bolt to the columns.

top ties

14-gauge, top tie U channels shall be bolted to the tops of the columns of each stack, with flanged side down.

finish

All metal parts shall be neatly finished in baked enamel in accordance with the best practices of the steel furniture trade.

closed ends

Closed stack ends shall be full depth of both single and double faced bottom shelves and of 18-gauge steel, reinforced to maximum strength to provide for rigid installation. Corners shall be formed to a ¾-inch radius and double flanged.

drawings

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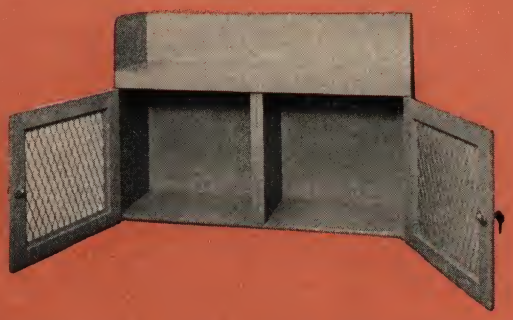
details and accessories

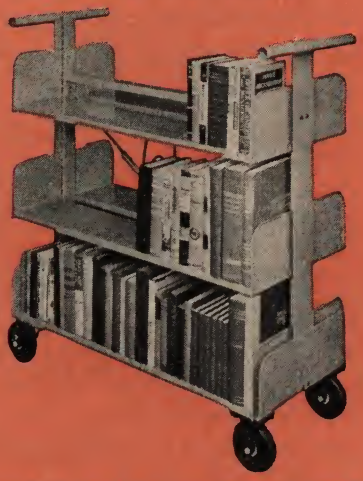
book lockers



fabricated of steel, they are advantageously used in stack area or with carrels in carrel area. Have variety of uses including rare book and manuscript storage where free access is not desirable; individual student use for storage of research materials, etc. All lockers are equipped with locks.

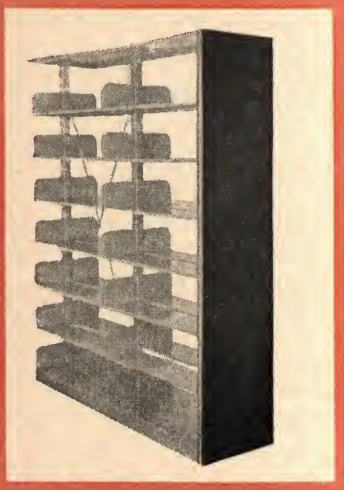
book trucks

Stock Nos. — BT-608, BT-610, BT-612



made of steel, they are designed for efficient, quiet operation. They are equipped with rubber-tired wheels and silent, friction-free ball bearings. Truck will accommodate bracket-type bookshelves.

closed end panels



provide an attractive and finished appearance for the stacks. Ends are available for both single- and double-faced stacks in all depths.

newspaper shelves

equipped with flush type supporting brackets, are 18″ deep. Continuous shelving the length of a stack range is possible.

Stock No. NS-18

hinged periodical display shelf

permits full-view display. This shelf is pivoted so that when the front is lifted a storage space for back issues is exposed.

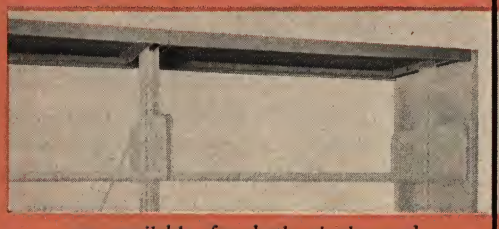
Stock No. HPS-12

fixed periodical shelf

is also a sloping shelf for displaying periodicals. A flat shelf with flush brackets may be placed directly below this shelf to house back issues.

Stock No. FPS-12

top covers



are available for both single- and double-faced stacks. They enhance the appearance of the stacks and provide protection from dust.

study carrels

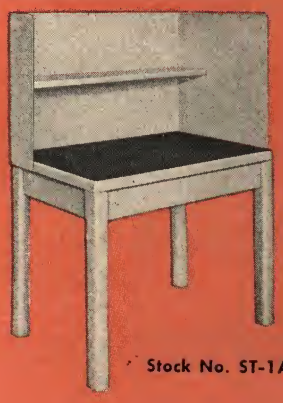
are supported by stack columns. Edges of the linoleum tops have stainless steel binding.

Stock No. SCD-36 without drawer
Stock No. SCDD-36-1 with drawer

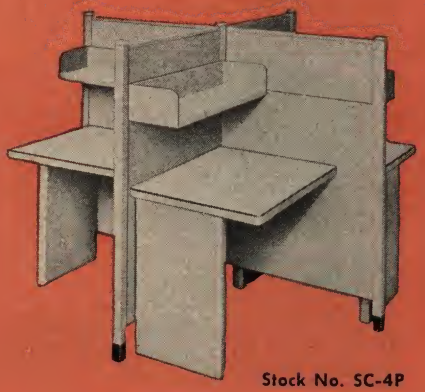
aisle light reflector

is scientifically designed especially for narrow aisle illumination. The heavy gauge, satin finish aluminum is punched to give uniform light distribution. Baffles facing the aisle axis shield against glare.
Stock No. SALR-5203.

free-standing study carrels



Stock No. ST-1A



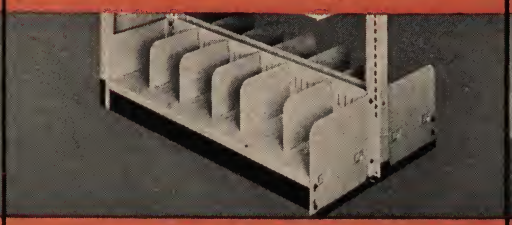
Stock No. SC-4P

Globe-Wernicke has specially designed free-standing study carrels that provide the greatest degree of flexibility possible for library areas. Made up of standard components, these carrels may be assembled in a great number of arrangements to suit individual requirements. They may also be disassembled and then re-assembled into other combinations at any time when needs might change. Provision has been made for electrical wiring so that individual fluorescent lights, dictating machines or electrical calculators may be connected directly in outlets on the carrel. Free-standing table and "hook in" type carrels are also available.

sliding reference shelf

expedites easy reference. Used only with double faced sections without sway braces or back panels. Available for 10- and 12-inch shelves. Stock Nos. SRS-10; SRS-12

pamphlet filing



Pamphlet shelves offer the ideal solution for storage of pamphlets or folders. Vertical metal dividers engage in slots — easily adjustable and removable. Indexed guides are available for use with pamphlet filing shelves.

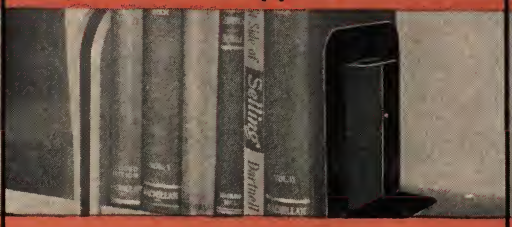
snap-on label holders

finished in black, snap easily into place on the front of the shelf.

wire book supports

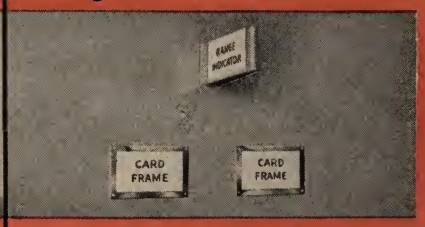
made of heavy gauge wire, engage in the shelf above, are readily removed or adjusted. Supports are available for 8-, 10-, or 12-inch shelf depths.
Stock Nos. WS-8; WS-10; WS-12

plate book supports



so designed that they can not become lost between books. Available in two heights.
Stock No. BE-9 . . . 9" high
Stock No. BE-1 . . . 5¼" high

range indicators

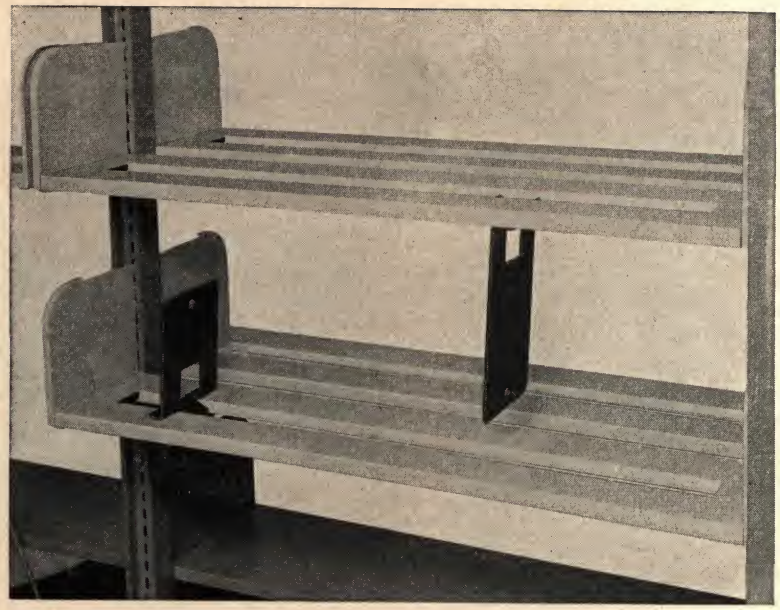


and card frames, for use on closed panel ends, accomodate 3" x 5" cards. Indicators may also be attached to end column.
Card Frame, No. CFH-35
Range Indicator, No. RI-6

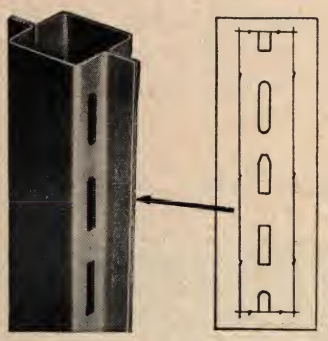
details and accessories

"trac-shelf" and support

"Trac-Shelf" is made from 18 gauge steel. Furnished with "one track" book support, 6" high. Support can be hung, if desired, from shelf above. Holds firmly, locked in place. 9" high "Trac" book support is available as optional extra.



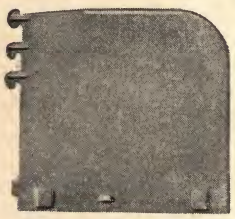
column construction — guided shelf adjustment



Book stack columns are constructed of heavy gauge steel of at least 16-gauge. Each free-standing column is made up of two half sections which are securely welded together to form an extremely strong and rigid member. Multi-tier columns vary in gauge and section according to the load which must be accommodated.

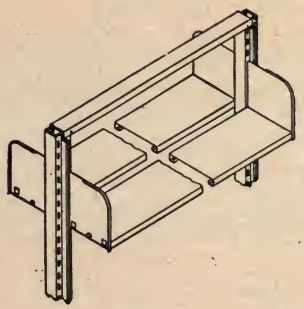
G/W Snead guided shelf adjustment solves the problem of levelling shelves when installing or moving them. Adjusting slots are of three different shapes; are so arranged that slots of any one shape are at the same level throughout the stack. This is a time- and labor-saver for the library staff.

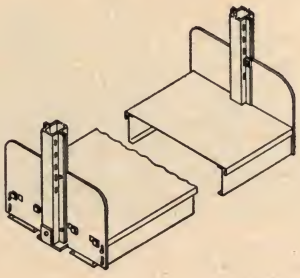
book shelf brackets

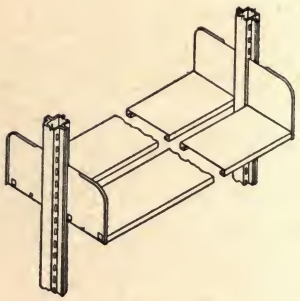


Shelf brackets are formed of heavy 16-gauge steel with all exposed edges smoothly rounded to prevent damage to books. These hooks, providing maximum support, are blistered so as to make a snug fit in column slots. A safety feature requires that the front of the shelf be lifted before the shelf can be removed from the stack.

shelf details



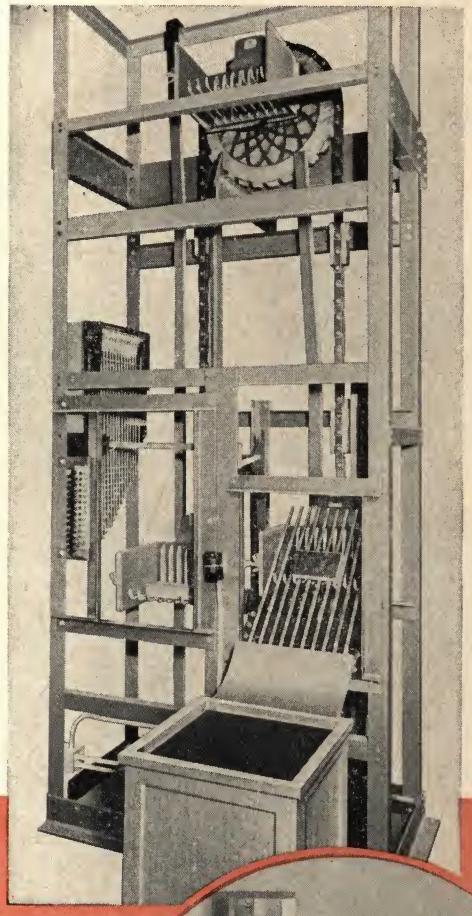




All components of Globe-Wernicke Bookshelves are precision fabricated and finished to meet the highest standards of workmanship.

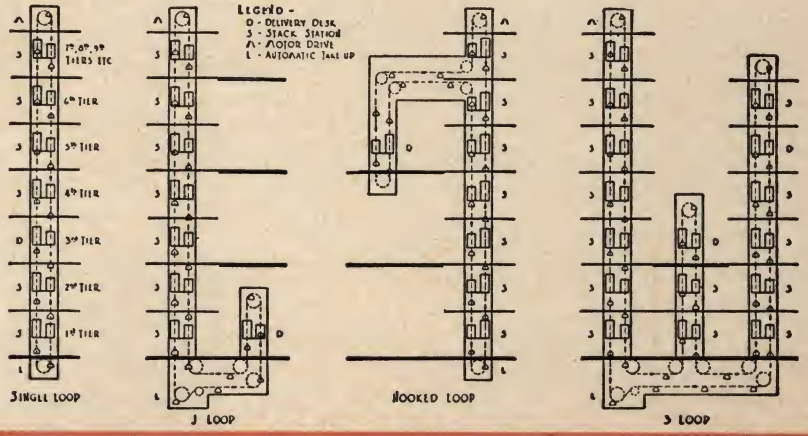
All exposed edges are smooth finished — all fastenings are secure and of best quality, fabricated for true alignment to give lifetime, trouble-free service.

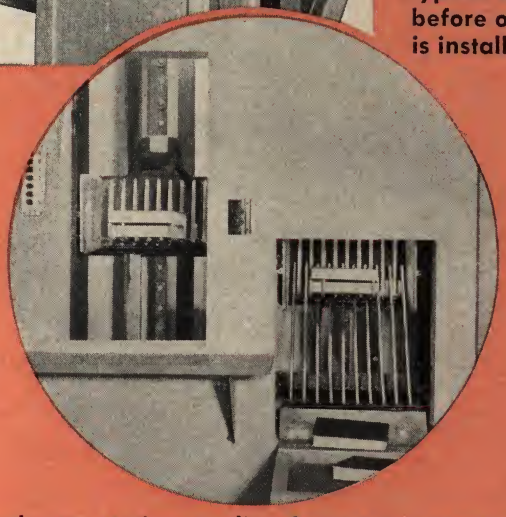
Globe-Wernicke (SNEAD) automatic conveyor



typical stackroom station before ornamental enclosure is installed.

The Snead Conveyor is designed to serve the delivery desk or desks with the material needed from the book stacks. It also simultaneously takes material back again for reshelving. Such a conveyor is economical and efficient. The conveyor consists of an endless chain from which the carriers are suspended. The conveyor operates in one plane and runs both horizontally and vertically to serve as many stations as may be desired. Its use makes it possible to store books remotely from the delivery desk and still give quick, efficient and economical service. The necessity for the attendants to use stairs and elevators for getting books is eliminated. The saving of time is beneficial both to the staff and readers. The Snead conveyor has also been used with success and economy in office buildings for the distribution of mail and the inter-floor delivery of correspondence and files.





stackroom station sending & receiving openings

SNEAD automatic loading device station

operation

To start the conveyor, the attendant merely has to push a button and the cars begin to move after a short pause and a warning buzzer. Pressing another button will stop the conveyor and there are emergency stops at each loading opening to prevent improperly loaded material from going through the shaft.

The conveyor operates at a speed of from 60 to 100 feet per minute continuously and by pressing one of a series of push-buttons, the material loaded on a car will be automatically discharged at the desired station. Safety devices are simple and effective.

Snead automatic loading device

First used in United Nations Secretariat Building is the new Snead Automatic Loading Device with the Snead Conveyor. (Illustrations and diagrams above.) Simple automatic loading and unloading operation. Operator places material in loading recess on a counter-top and pushes button for desired destination. First empty carrier to reach station automatically picks up material; carries it to desired station and unloads automatically. Material rests upon receiving slide until picked up. Light signals its arrival. When many loads are going to one station, repeat button is pushed, and operator feeds material into loading areas.

installations

Virginia Polytechnic Institute
Blacksburg, Virginia

Florida State University
Tallahassee, Florida

University of Miami — Law Library
Coral Gables, Florida

Princeton Theological Seminary
Princeton, New Jersey

University of Illinois — Law Library
Urbana, Illinois

Antioch College
Yellow Springs, Ohio

University of Indiana — Law Library
Bloomington, Indiana

Indiana State Teachers College
Terre Haute, Indiana

Illinois State Library
Springfield, Illinois

Georgia Institute of Technology
Atlanta, Georgia

North Carolina State College
Raleigh, North Carolina

University of Notre Dame
Notre Dame, Indiana

University of Pittsburgh — Medical Library
Pittsburgh, Pennsylvania

Wayne University
Detroit, Michigan

University of Maryland
College Park, Maryland

University of Oklahoma
Norman, Oklahoma

Louisiana State University
Baton Rouge, Louisiana

Texas Christian University
Fort Worth, Texas

Ohio State University — Law Library
Columbus, Ohio

Wabash College
Crawfordsville, Indiana

McKeldin Library
University of Maryland
College Park, Md.

Library
Wabash College
Crawfordsville, Indiana

Carol M. Newman Library
Virginia Polytechnic Institute
Blacksburg, Virginia

Law Library
University of Illinois
Urbana-Champaign, Illinois

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